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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/629,569	07/31/2000	Kenneth L. Stanwood	ENS-015-PAP	5412

7590 01/18/2005
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EXAMINER

LY, ANH VU H

ART UNIT	PAPER NUMBER
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2667

DATE MAILED: 01/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/629,569

Applicant(s)

STANWOOD, KENNETH L.

Examiner

Anh-Vu H Ly

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 14, 2004 has been entered.

Claim Objections

2. Claims 1-2 and 9 are objected to because of the following informalities:

With respect to claim 1, in line 2 “rangting” and in line 4 “comirising” are misspelled. In line 10, “a subscriber unit” should be changed to - -the subscriber unit- - and in line 12, “a corresponding subscriber unit” should be changed to - -the corresponding subscriber unit - -.

With respect to claim 2, in line 7, “a subscriber unit” should be changed to - -the subscriber unit- - and in line 9, “an associated subscriber unit” should be changed to - -the associated subscriber unit - -.

With respect to claim 9, in lines 12 and 14, “mew” and in line 17 “unites” are misspelled.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Hassan et al (US Patent No. 5,822,311). Hereinafter, referred to as Hassan.

With respect to claims 1, 2, 9, and 16, Hassan discloses (col. 4, line 66 – col. 5, line 10 and Fig. 4) that in step 102, the mobile unit transmits on the uplink RACH channel one or more RACH bursts. Herein, in GSM digital radio-communication systems, bandwidth is divided into frequency bands, wherein, each frequency bands including a number of time slots. A number of frequency bands are reserved for signaling transmissions. In accordance to Fig. 2, the signaling channels comprising the broadcast channel, common control channels, and dedicated control channel. Herein, the common control channels including the paging channel, access grant channel, and the random access channel. Herein, the random access channel including one or more transmission frames, each transmission frame comprising one or more time slots. The transmission frame, including one or more time slots, is considered as a contiguous new access opportunity time window by the examiner.

One or more time slots of the transmission frame of the random access channel are used by the subscribers to transmit access bursts to the base station for call initiation or call paging acknowledgement, etc... Therefore, the subscribers monitor the status of the slots of the transmission frames when desiring to send access data (waiting for a contiguous new access opportunity time window).

Hassan discloses (col. 3, lines 35-38) that in GSM system, a RACH burst includes 68.25 bits as a guard time to prevent collisions with traffic bursts (a time window reserved for transmission of data from one of the subscriber units and a time window reserved for the

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transmission of data to the base station from two or more of the subscriber units) on adjacent time slots. Herein, the RACH burst is followed by traffic bursts (the new access opportunity time window being temporally preceded for followed by at least one of a time window reserved for transmission).

In step 104, the satellite or the base station in Fig. 1 calculates and forwards the time adjustment (sending a Tx delay time data value to the corresponding subscriber unit for communication time synchronization) to the subscriber unit from the received coded frame information and received coded slot information using any suitable method (scanning and acquiring an access burst message from a corresponding subscriber unit during the new access opportunity time window).

As previously stated, the random access channel comprising one or more transmission frames and each transmission frame comprising one or more time slots, therefore the subscriber units when desiring to send access data monitor the slots of the transmission frames, and if the last slot in the transmission frame, let's say frame 1, is occupied, then the subscribers monitor the next slot in the next transmission frame, let's say frame 2 (returning to the waiting step if the new access opportunity has expired or returning to scanning step).

Herein the transmission frames of the random access channel are cyclically repeated. Therefore, the subscribers keep monitoring the slots when desiring to send access data in one of the idle slots of one or more transmission frames of the random access channel.

Further, since the random access channel is a signaling channel, the base station always monitor (this is equivalent to the returning to step (b) if the new access opportunity has not expired) and scan for the access bursts from the subscribers in the transmission frames of the

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random access channel. This process is repeated for slot-by-slot and frame-by-frame as long as the base station is programmed to do so (a plurality of access burst messages are acquired from corresponding subscriber units during at least one contiguous new access opportunity time window).

With respect to claims 3, 10, and 17, Hassan discloses (col. 4, line 66 – col. 5, line 10 and Fig. 4) that in step 102, the mobile unit then transmits on the uplink RACH channel one or more RACH bursts, which preferably include information such as coded message data, which includes information and redundancy bits, coded frame information identifying a predicted frame on which the mobile unit desires to transmit and coded slot information identifying a predicted slot (comprising a send time of the subscriber unit) on which the mobile unit desires to transmit.

With respect to claims 4, 11, and 18, Hassan discloses (col. 3, lines 6-10) that if the RACH channel is idle, a mobile unit desiring access sends access data, such as the mobile's identification number (including an identification data associated with the subscriber unit), call established cause, and the desired telephone number, on the RACH to the base station or the satellite.

With respect to claims 5, 7, 12, 14, and 19, Hassan discloses in Figs. 1 and 3, broadband wireless communication systems for transmitting random access signals from a mobile unit to a satellite or other control station (see Abstract) (wherein the communication system is a broadband wireless communication system and a satellite communication system).

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With respect to claims 6, 8, 13, 15, and 20, Hassan discloses in Fig. 1, the base station includes a control and processing unit 130, which is connected to the MSC 140, which in turn is connected to the PSTN network (communication system is a cable modem communication system and a cellular telephone communication system).

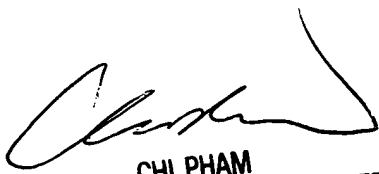
Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

avl


CHI PHAM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600 1/14/05